



descote cylinder valves 51 are accepted since 1979 by U.S. Department of Energy (DOE) for Uranium Enrichment facilities.

descote has been manufacturing and delivering Cylinder valves 51 (1 inch) to the main Uranium enrichment facilities in the U.S.A. and everywhere in the world for more than 20 years.

descote also manufactures and delivers plugs according to ANSI N14.1.

#### Quality Assurance

Design and manufacturing process is ISO 9001 approved since 1983.

#### Packing nut rupture - Improved QA value

For many years, cylinder valve users have been meeting important problems of packing nut rupture. descote implemented a program that goes beyond ANSI and other applicable requirements. The specifications and requirements applied during manufacturing and controls under this quality plan definitely puts and end to any risk of packing nut rupture. All descote valves benefit from this improved QA value.

Cylinder valves and plugs are manufactured in our descote France manufacturing facilities.



In December 2002, USEC thoroughly revised its specifications, introducing new testing & Quality Assurance procedures. The cylinder valves 51 manufactured by descote meet every requirement of this updated specification.

descote has been officially notified on April 2, 1979 :

*"Valves manufactured by DESCOTE are being fabricated in accordance with applicable ANSI and DOE standards and a rigorous inspection and testing of valves furnished by DESCOTE during the summer 1978 indicates they are acceptable for use at DOE uranium enrichment facilities."*

descote also supplies Model 2100B bellows sealed globe valves for UF6 production, conversion and enrichment, as well as many other applications such as nuclear waste reprocessing, nuclear power plants...

# Cylinder valve 51 (1 inch)

## technical data

### Valve technical specifications

Valves are manufactured according to the design specified by the DOE.

They strictly meet:

- ANSI N14.1 B6.15 Fig. 12 requirements
- Martin Marietta Drawing EJ11 246.
- USEC specification JSP 532
- USEC specification 45.EC.651

In addition, descote specifically performs testing & examination, according to its own QA plan.

It thus ensures the sound metallurgy of CDA 636/613 bars.

- Nitric Acid test
- Eddy current test
- Mercurous Nitrate test
- Micrography test

### Quality assurance

descote strictly follows a QA program conforming to:

- ISO 9001
- ASME NQA 1
- 10 CFR 50, Appendix B
- 10 CFR 21
- 10 CFR 71, subpart H

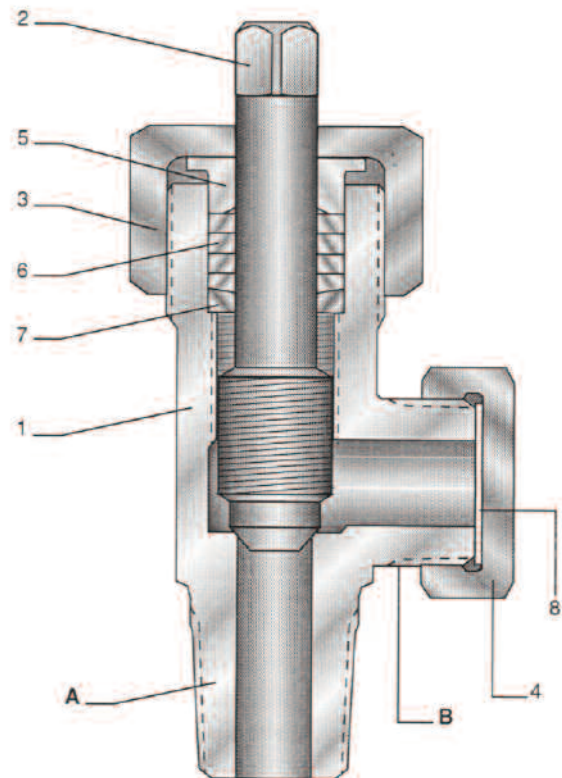
Each batch of valve is delivered with a technical file providing all relevant data and a QA certificate that guarantees conformity to the applicable standards.

### Material selection and design criteria

Nr.	Part	Material
1	Body	Alloy 636
2	Stem	B564 Nr.4400
3	Packing nut	Alloy 613
4	Cap	Alloy 613
5	Packing follower	Alloy 613
6	Packing	Pure PTFE
7	Packing ring	Alloy 613
8	Cap gasket	Pure PTFE

### Design criteria

Rating	ANSI N14.1
Face to face	ANSI N14.1 Figure 12
Ends	A. 1"111/2 NGT Special ANSI B57.1, with tinned lower end B. 1"1/2 12UNF 2A ANSI B1.1



For any further information, please contact

**descote s.a.s**

9 avenue Jean Jaurès  
69320 Feyzin - France

Phone: +33 4 72 89 25 00  
Fax: +33 4 72 89 25 25

E-mail : [info@descote.com](mailto:info@descote.com)  
Web : [www.descote.com](http://www.descote.com)